## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

- 1. (Currently Amended) A balloon for a balloon dilatation catheter, comprising:
- a balloon body having an expandable region and a balloon waist <u>having a profile</u>, the balloon waist including a plurality of voids;

wherein the plurality of voids are <u>configured</u> shaped and placed such that the balloon waist will have a reduced profile <u>over a substantial portion of the balloon waist</u> subsequent to thermal reformation.

- 2. (Previously presented) A balloon for a balloon dilatation catheter as in claim 1, wherein the balloon waist has a material volume per unit length, and wherein the plurality of voids reduce the material volume per unit length.
- 3. (Previously presented) A balloon for a balloon dilatation catheter as in claim 2, wherein the material volume per unit length decreases in the distal direction.
- 4 (Currently amended) A balloon for a balloon dilatation catheter as in claim 1, wherein the size, number and position of the plurality of voids are selected to cause the <u>material volume</u> per unit length to decrease in a distal direction.
- 5. (Previously presented) A balloon for a balloon dilatation catheter as in claim 1, wherein a proximal balloon waist and a distal balloon waist include a plurality of voids, wherein the plurality of voids are shaped and configured such that the balloon waists will have a reduced profile subsequent to thermal reformation.
  - 6. (Cancelled)

- 7. (Withdrawn) A balloon dilatation catheter as in claim 1, wherein the plurality of voids are wedge shaped.
- 8. (Previously presented) A balloon for a balloon dilatation catheter as in claim 1, wherein the plurality of voids are circular.
- 9. (Withdrawn) A balloon dilatation catheter as in claim 1, wherein the plurality of voids are rectangular.
- 10. (Withdrawn) A balloon dilatation catheter as in claim 1, wherein the plurality of voids are diamond shaped.
  - 11. (Currently amended) A balloon for a balloon dilatation catheter, comprising:
- a molded balloon, the balloon being molded to have an expandable region, a balloon waist and a length extending from a proximal end of the balloon waist to a distal end of the balloon waist, the balloon waist having a material volume per unit length, and

means for altering the material volume per unit length over a substantial portion of the balloon waist subsequent to thermal reformation wherein material is removed from the balloon waist to achieve the material volume per unit length.

- 12. (Previously presented) A balloon for a balloon dilatation catheter as in claim 11, wherein the material volume per unit length decreases from the proximal end to the distal end.
- 13. (Previously presented) A balloon for a balloon dilatation catheter as in claim 11, wherein the material volume per unit length is controlled by the formation of a plurality of voids in the balloon waist.

- 14. (Currently amended) A balloon for a balloon dilatation catheter as in claim 13, wherein the size, number and position of the plurality of voids are selected to <u>alter</u> [[cause]] the material volume per unit length.
- 15. (Withdrawn) A balloon dilatation catheter as in claim 13, wherein the plurality of voids are wedge shaped.
- 16. (Previously presented) A balloon for a balloon dilatation catheter as in claim 13, wherein the plurality of voids are circular.
- 17. (Withdrawn) A balloon dilatation catheter as in claim 13, wherein the plurality of voids are rectangular.
- 18. (Withdrawn) A balloon dilatation catheter as in claim 13, wherein the plurality of voids are diamond shaped.
- 19. (Withdrawn) A method of manufacturing a balloon catheter comprising the steps of:
  providing a catheter shaft having a proximal end and a distal end;
  providing an expandable balloon having a waist and an expandable portion;
  forming a plurality of voids in the balloon waist;
  thermally reforming the waist to close the voids and to reduce the profile of the waist;
  and

attaching the waist to the distal end of the catheter shaft.

- 20. (Withdrawn) A method of manufacturing a balloon catheter as in claim 19, wherein the step of attaching the waist comprises a thermal bonding process.
- 21. (Withdrawn) A method of manufacturing a balloon catheter as in claim 20, wherein the steps of thermally reforming the waist and attaching the waist are performed simultaneously.

22. (Withdrawn) A method of manufacturing a balloon catheter as in claim 19, wherein the balloon waist comprises a polymer which melts and flows into the plurality of voids during the step of thermal reforming.